

# Exhibit 31

## Part 3



#9  
8-29-01  
Robert  
PATENT Drawing  
8733.173.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re application of

**Young Woo CHO et al.**

Group Art Unit: **2835**

Application No.: **09/437,222**

Examiner: **L. Lea Edmonds**

Filed: **November 10, 1999**

For: **PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT  
PANEL DISPLAY DEVICE MODULE**

**DRAWING CHANGE AUTHORIZATION REQUEST**

Commissioner of Patents  
Washington, D.C. 20231

Sir:

Applicants submit proposed drawing corrections as shown in red in the appended drawing, in which the following changes are indicated:

The removal of solid black shading from Fig. Nos. 1-3B, 7-9 and 12.

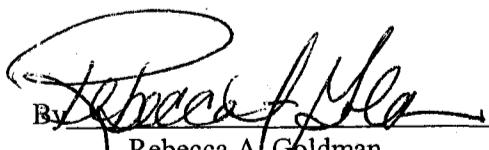
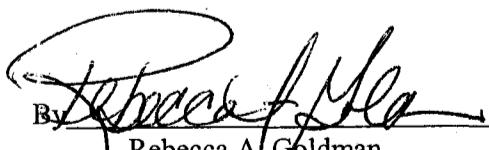
No new matter has been added. Favorable consideration is sought therefore.

Applicants respectfully request that submission of formal drawings be deferred until a Notice of Allowance has been issued in this application.

Applicants hereby authorizes the Commissioner for Patents to charge any fees necessary to complete this filing, including any fees required under 37 C.F.R. §1.136 for any necessary Extension of Time to make the filing of the attached documents timely, or credit any overpayment in fees, to Deposit Account No. 50-0911. Further, if these papers are not considered timely filed, then a petition is hereby made under 37 C.F.R. §1.136 for the necessary extension of time. A copy of this sheet is enclosed.

Respectfully submitted,

LONG ALDRIDGE & NORMAN, LLP

  
By   
Rebecca A. Goldman  
Registration No. 41,786

Date: August 23, 2001

RAG/SJH/dlt

Sixth Floor, Suite 600  
701 Pennsylvania Avenue, N.W.  
Washington, D.C. 20004  
Telephone No: (202) 624-1200  
Facsimile No: (202) 624-1298

1/14

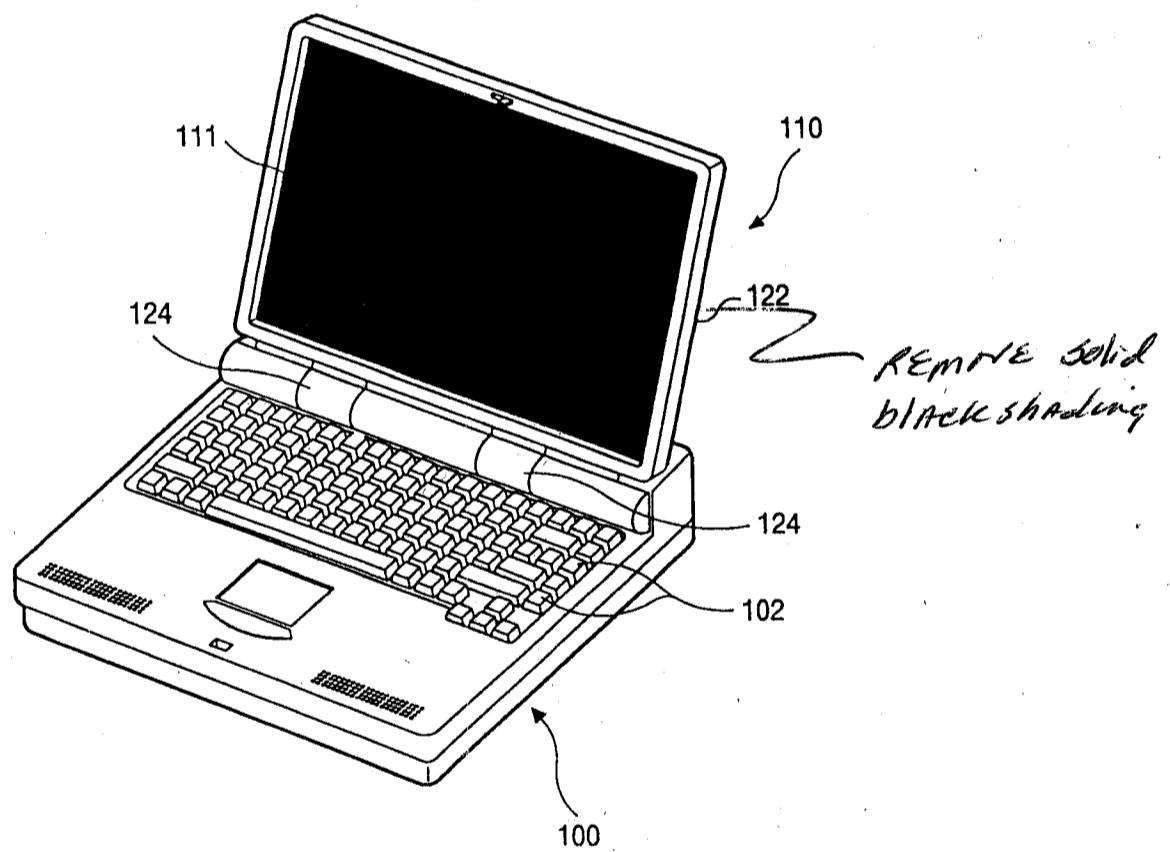


FIG. 1

2/14

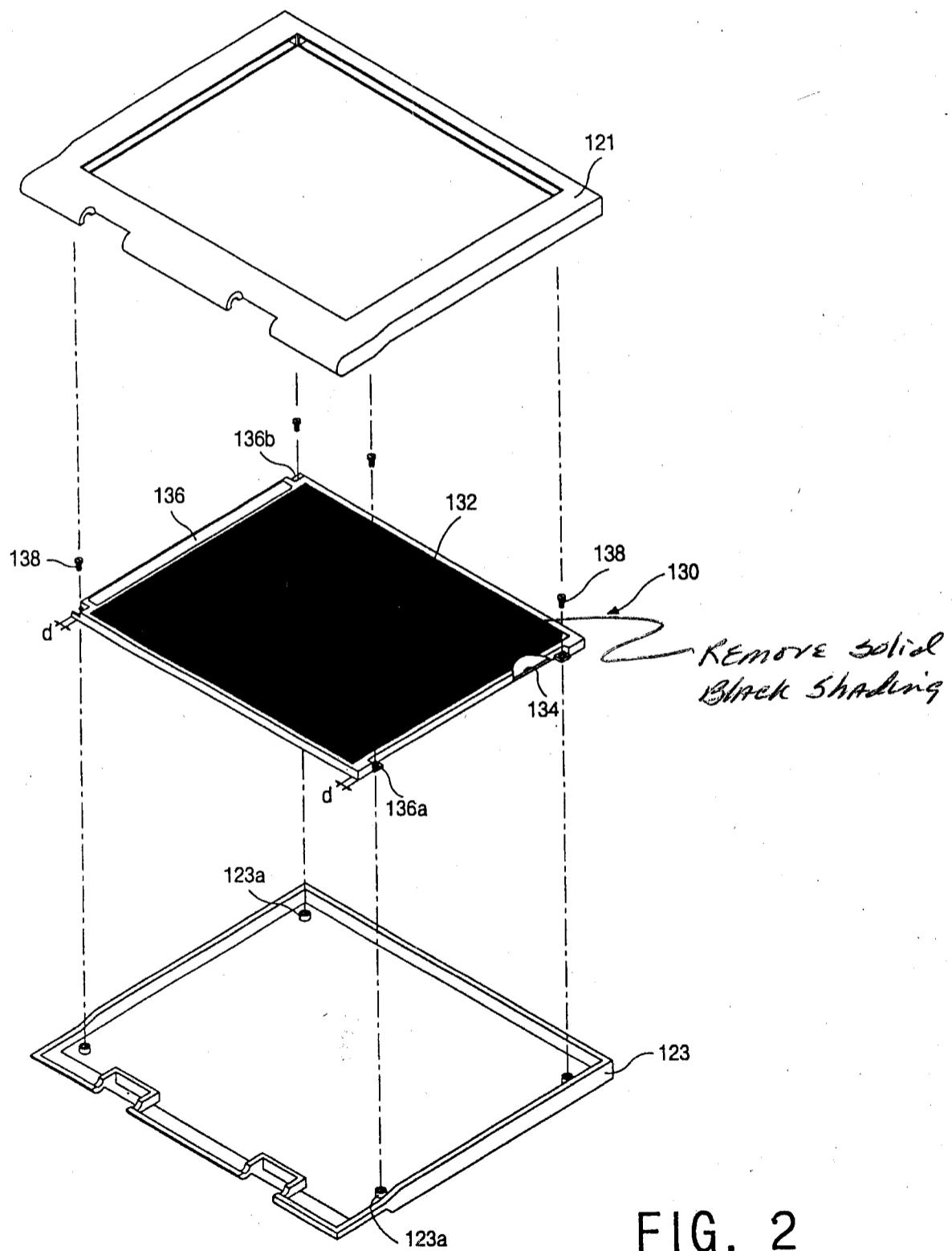


FIG. 2

3/14

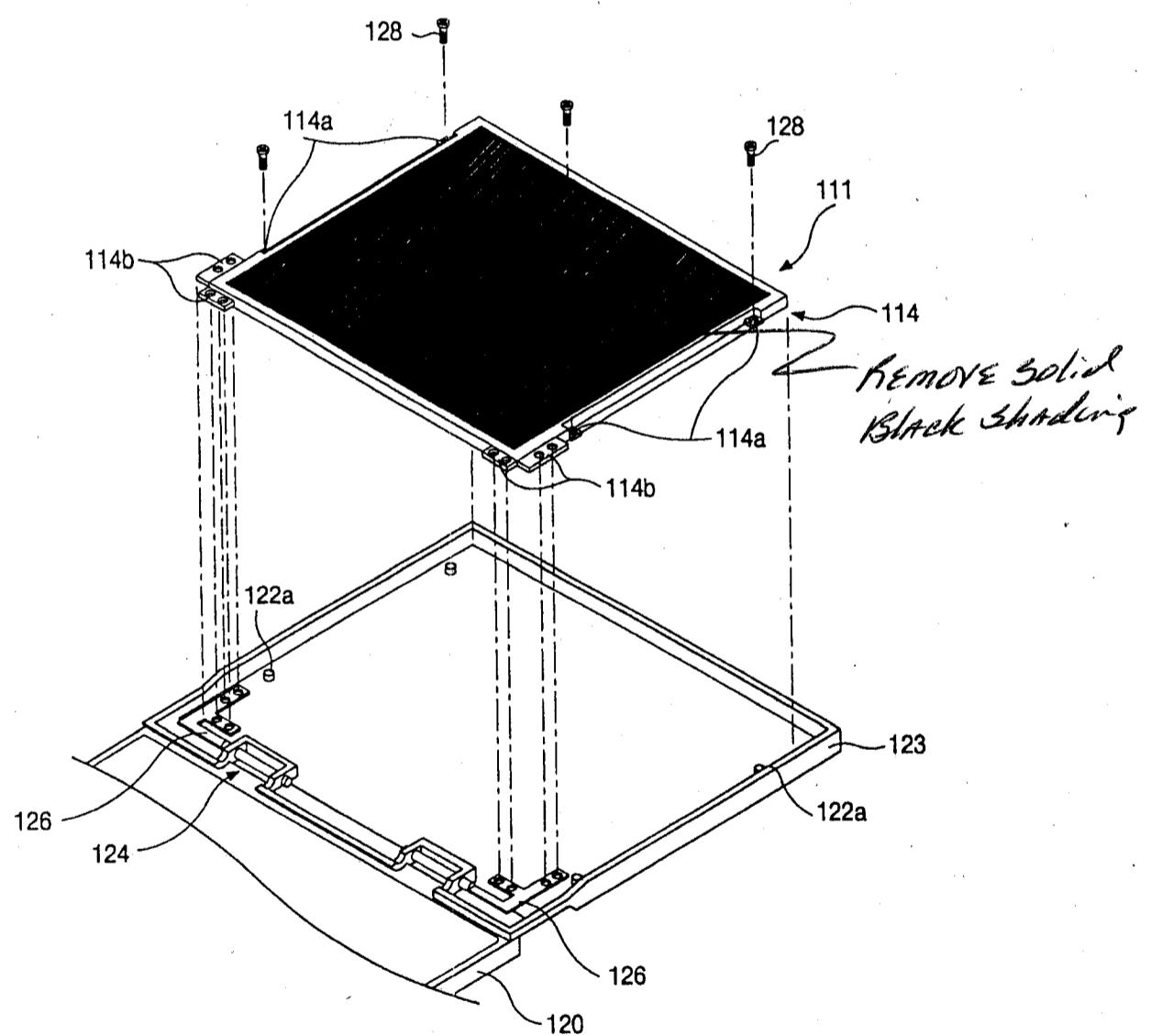


FIG. 3A

4/14

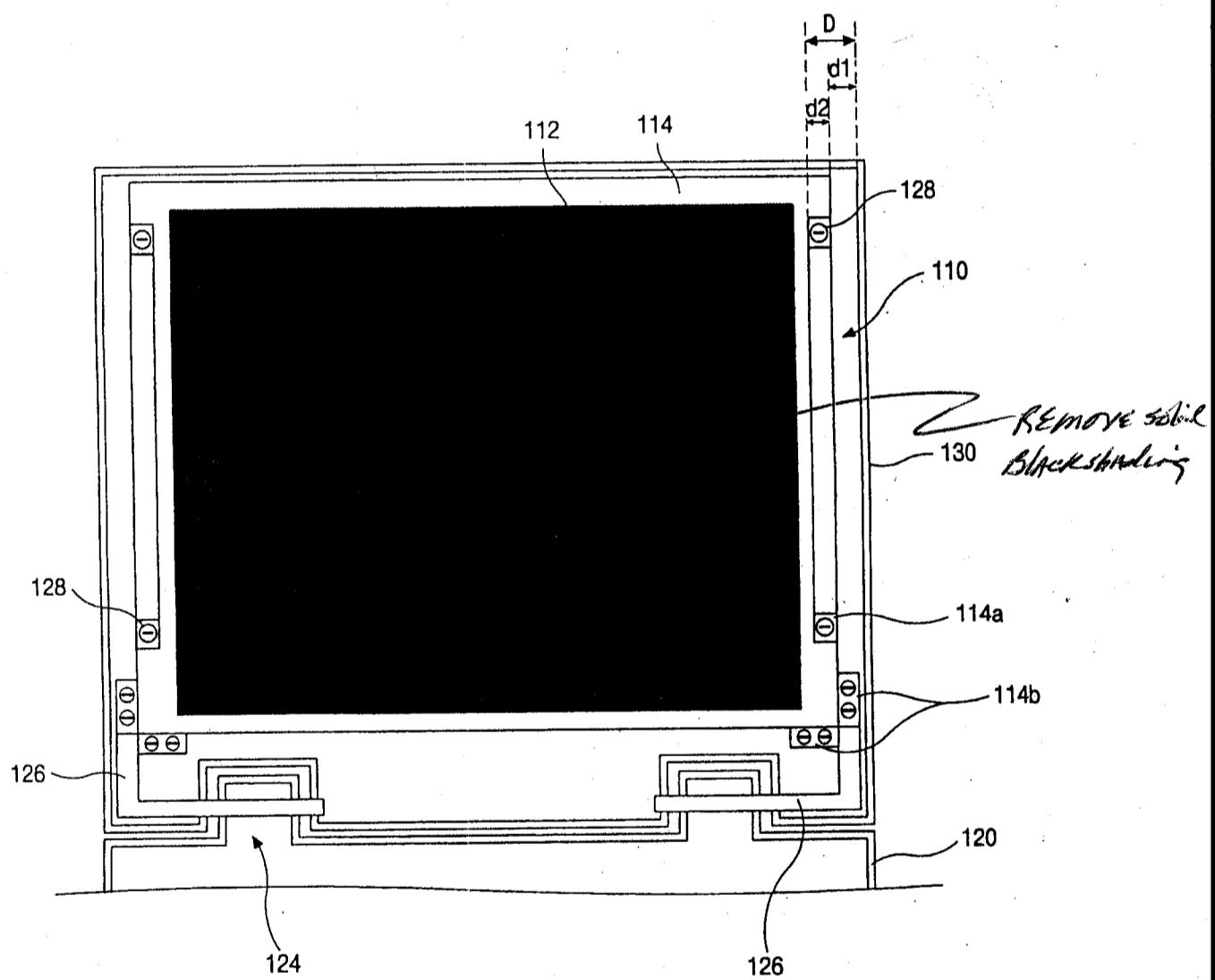


FIG. 3B

8/14

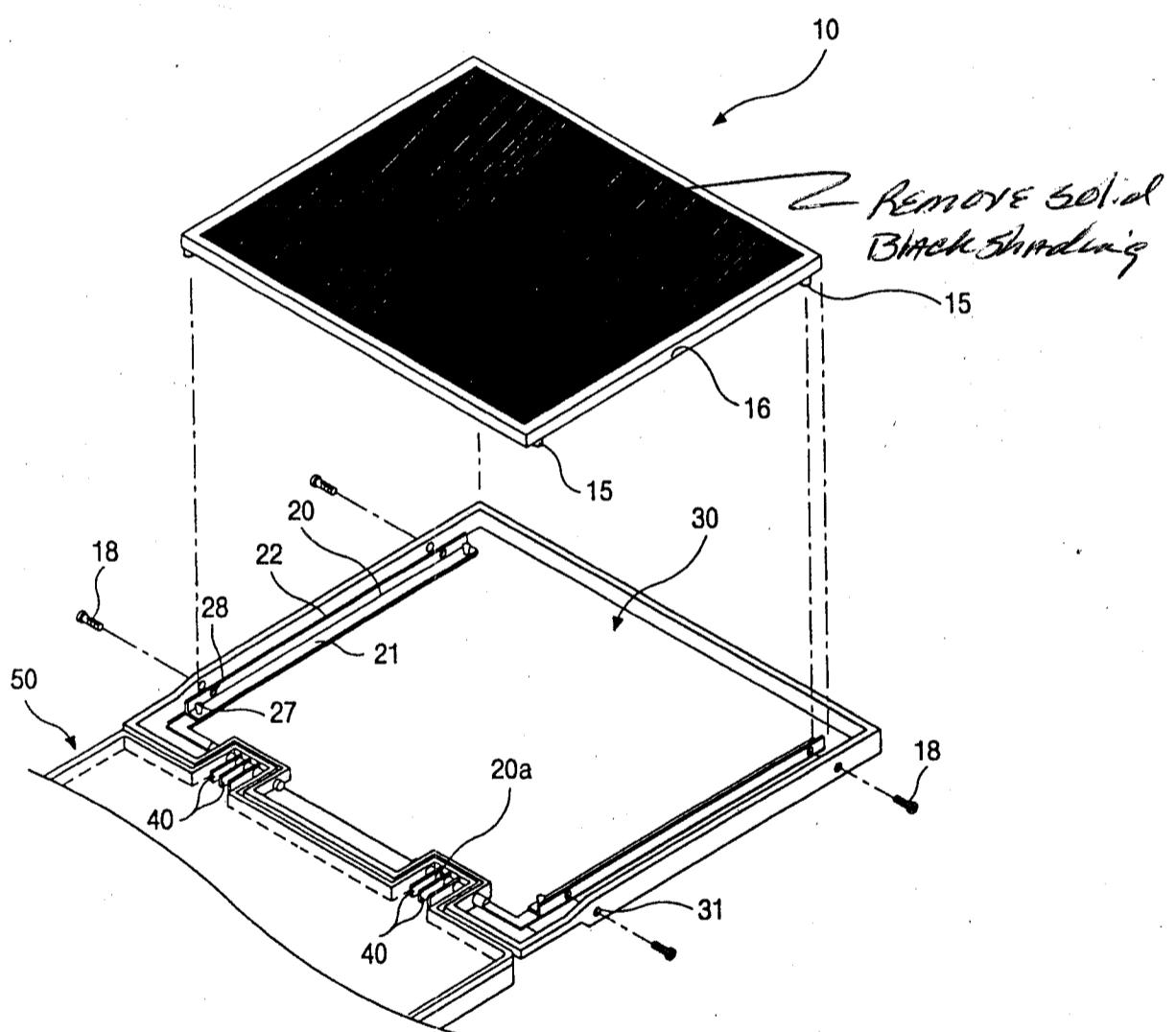


FIG. 7

9/14

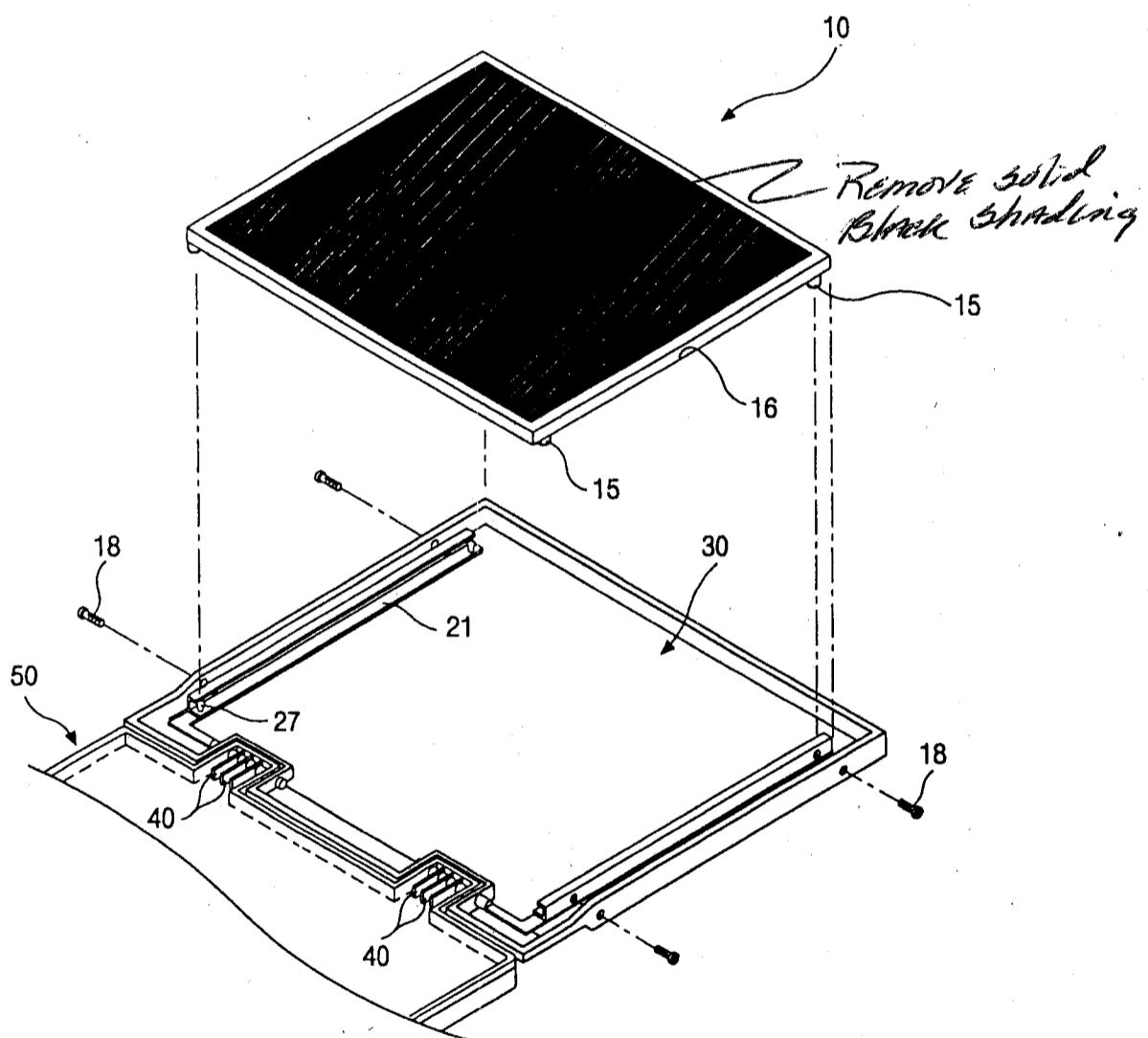


FIG. 8

10/14

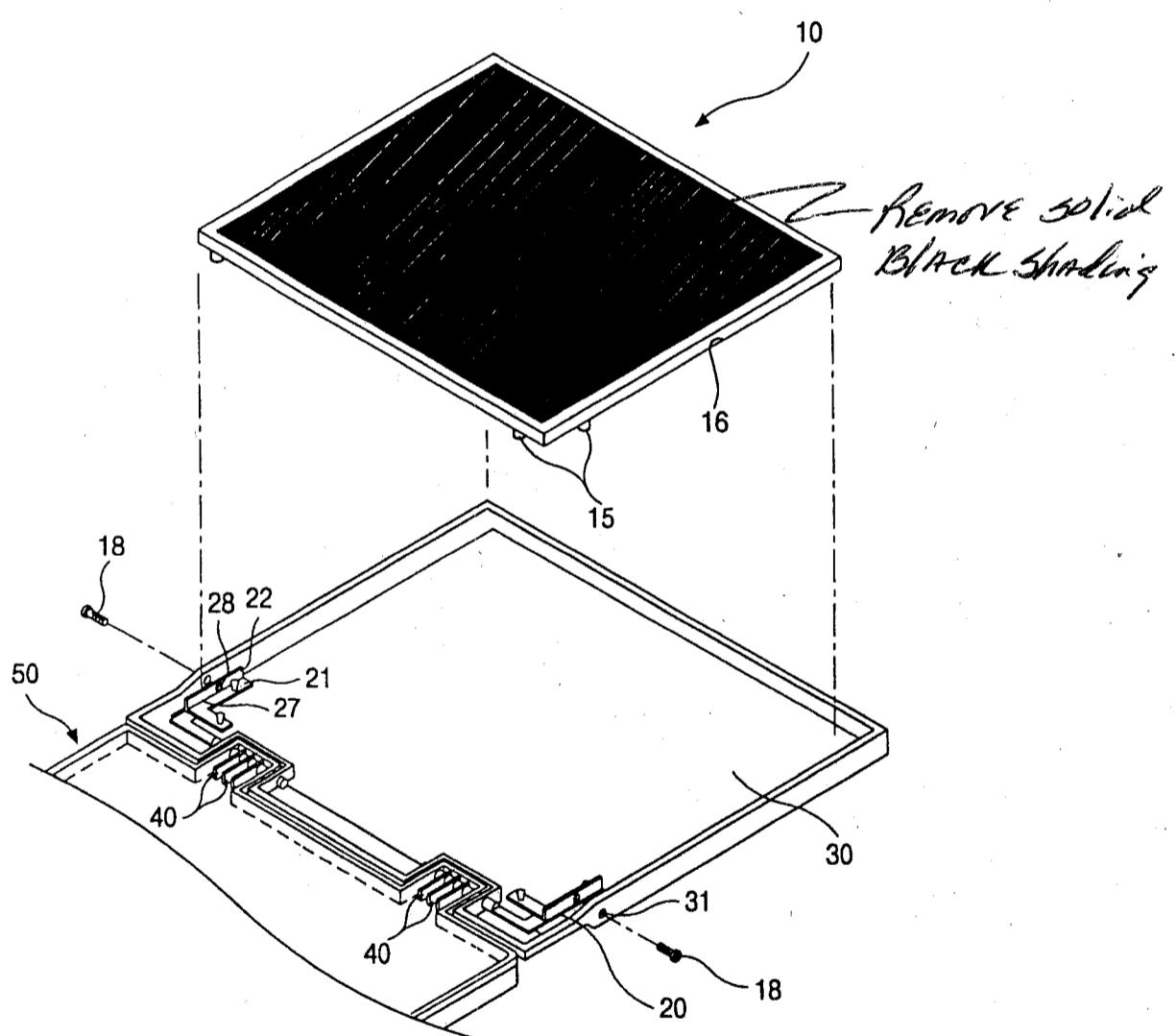


FIG. 9

14/14

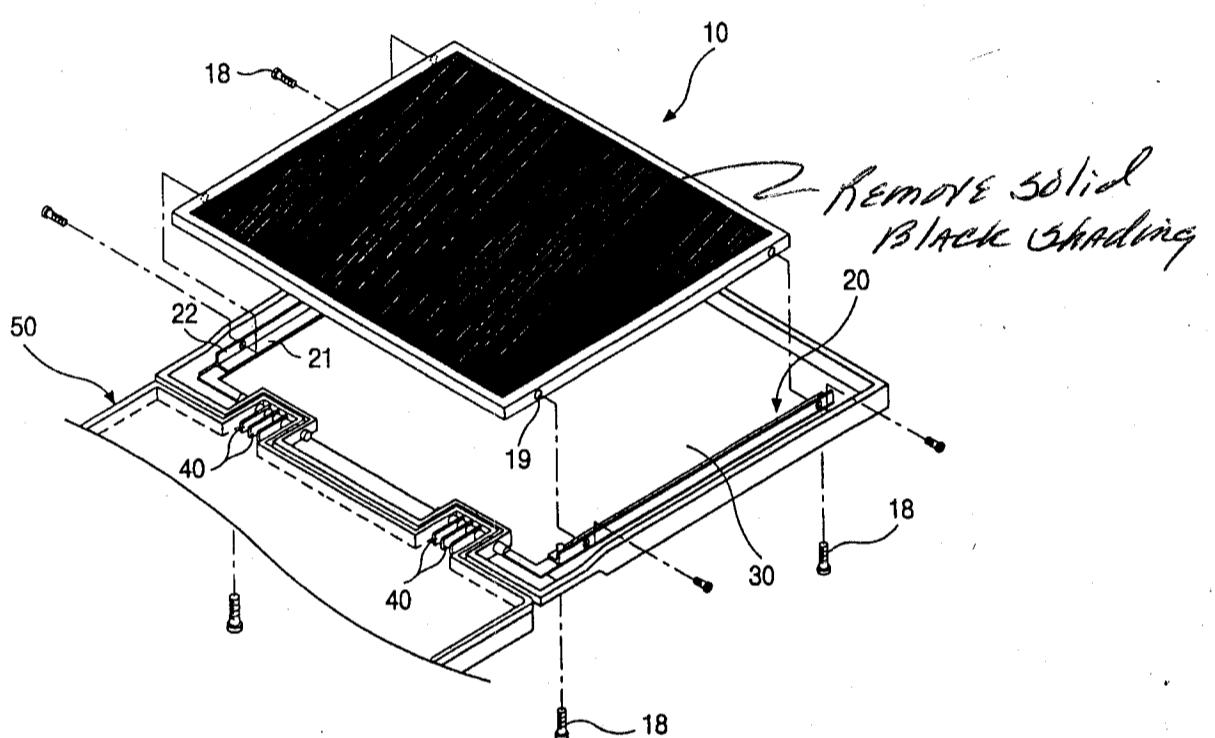


FIG. 12

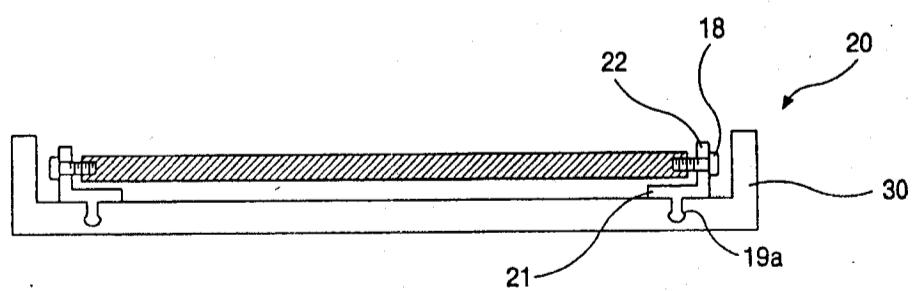
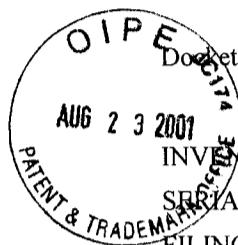


FIG. 13



Docket No. 8733.173.00

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INVENTOR(S) Young Woo CHO et al.

SERIAL NO: 09/437,222

FILING DATE: November 10, 1999

FOR: Portable Computer and Method for Mounting a Flat Panel Display Device Module

## FEE TRANSMITTAL

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS	33 - 31 =	2	× \$18 =	\$36.00
INDEPENDENT CLAIMS	7 - 6 =	1	× \$80 =	\$80.00
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS (If applicable)			+ \$270 =	\$0.00
<input type="checkbox"/> LATE FILING OF DECLARATION			+ \$130 =	\$0.00
			BASIC FEE	\$0.00
			TOTAL OF ABOVE CALCULATIONS	
<input type="checkbox"/> REDUCTION BY 50% FOR FILING BY SMALL ENTITY				\$0.00
<input type="checkbox"/> FILING IN NON-ENGLISH LANGUAGE			+ \$130 =	\$0.00
<input type="checkbox"/> RECORDATION OF ASSIGNMENT			+ \$40 =	\$0.00
			TOTAL	\$116.00

Please charge Deposit Account No. 50-0911 in the amount of A duplicate copy of this sheet is enclosed.

Check totaling \$116.00 to cover additional claim fees

The Commissioner is hereby authorized to charge any additional fees which may be required for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 50-0911 (8733.173.00) A duplicate copy of this sheet is enclosed.

Respectfully Submitted,

LONG ALDRIDGE &amp; NORMAN LLP

Rebecca A. Goldman

Registration No. 41,786

Date: August 23, 2001
 Sixth Floor, Suite 600  
 701 Pennsylvania Ave., N.W.  
 Washington, D.C. 20004  
 Tel. (202) 624-1200  
 Fax. (202) 624-1298  
 83072.1

 TECHNOLOGY CENTER 2000  
 AUG 27 2001  
 RECEIVED

RECEIVED

VS078340



#10/A  
8-29-01  
Robert or  
Cemdt

PATENT  
8733.173.00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re application of

**Young Woo CHO et al.**

Group Art Unit: 2835

Application No.: **09/437,222**

Examiner: **L. Lea Edmonds**

Filed: **November 10, 1999**

For: **PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT  
PANEL DISPLAY DEVICE MODULE**

**AMENDMENT UNDER 37 C.F.R. 1.111**

COMMISSIONER OF PATENTS  
WASHINGTON, D.C. 20231

Dear Sir:

In response to the Examiner's non-final Office Action mailed May 23, 2001, please consider the following amendments and remarks in connection with the above-identified application.

**IN THE CLAIMS:**

Please add new claims 32 and 33.

*St Seal B1*

32. (New) A portable computer comprising:  
a system body having an input device;  
a display module having a display surface;  
a display case having walls, the display module secured between the walls of the display case; and

06/24/2001 031711B1 00000068 09437222

34 PCT/US01/031711

36.00 DP

80.00 DP

DC:82063.1DC82063

RECEIVED  
TECHNOLGY CENTER 2800  
AUG 2 2001  
VS078341

Application No.: 09/437,222  
Group Art Unit: 2835

Docket No.: 8733.173.00  
Page 2

*Cond  
Sel Bl*  
a hinge pivotally coupling display module to the display case, the hinge including a hinge frame having a first, second and third surfaces.

33. (New) The computer of claim 32, wherein the third surface is over a portion of the first surface.

#### REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the present application.

The Examiner's non-final Office Action dated May 23, 2001 has been received and its contents carefully noted. Claims 1-31 were pending in the present application. By this amendment, Applicants amend the drawings and add new claims 32-33. Accordingly, claims 1-33 are pending in this application. Applicants respectfully submit that no new matter has been added.

The Examiner is thanked for the indication of allowable subject matter in claims 4-7, 11-12, 16-17, and 20.

In the Office Action dated August 23, 2001, the Examiner rejected claims 1-3, 8-10, 13-15, 18-19, and 21-31 under 35 U.S.C. § 103(a) as being unpatentable over Fujimori et al. (U.S. Pat. No.: 5,379,182)(hereinafter "Fujimori") in view of Kurihara et al. (U.S. Pat. No.: 5,946,061)(hereinafter "Kurihara").

The rejection of claims 1-3, 8-10, 13-15, 18-19, and 21-31 under 35 U.S.C. 103(a) is respectfully traversed and reconsideration is requested.

Independent claim 1 is allowable over the cited references in that this claim 1 recites a combination of elements including, for example "[t]he second surface coupled with the side wall surface of the display case." None of the cited references, singly or in combination,

Application No.: 09/437,222  
 Group Art Unit: 2835

Docket No.: 8733.173.00  
 Page 3

teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 1 and claims 2-7, which depend from claim 1, are allowable over the cited references.

Independent claim 8 is allowable over the cited references in that this claim 8 recites a combination of elements including, for example "[t]he hinge including a hinge frame having first and second surfaces, the first surface coupled with the inner surface of the display case, the second surface coupled with the side wall surface of the display module." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 8 and claims 9-12, which depend from claim 8, are allowable over the cited references.

Independent claim 13 is allowable over the cited references in that this claim 13 recites a combination of elements including, for example "[a] hinge pivotally coupling the body to the display case, the hinge including a hinge frame coupled to the inner surface of the display case." None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 13 and claims 14-17, which depend from claim 13, are allowable over the cited references.

In rejecting Claims 18-19, and 21-31, the Examiner stated that, "[W]ith respect to the methods claims 18, 19, 21-31, the method steps as claimed the apparatus of Fujimori et al. in view of the Kurhara et al. would teach the method steps as claimed."

Independent claim 18 is allowable over the cited reference in that this claim recites a combination of elements including, for example "[f]astening the first surface of the hinge frame to the rear surface of the display module; and fastening the second surface the hinge

Application No.: 09/437,222  
 Group Art Unit: 2835

Docket No.: 8733.173.00  
 Page 4

frame to the side wall surface of the display case." None of the cited references singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 18 and claims 19-22, which depend from claim 18, are allowable over the cited references.

Independent claim 23 is allowable over the cited reference in that this claim recites a combination of elements including, for example "[f]astening the first surface of the hinge frame to the inner surface of the display case; and fastening the second surface of the hinge frame to the side wall surface of the display module." None of the cited references singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 23 and claims 24-27, which depend from claim 23, are allowable over the cited references.

Independent claim 28 is allowable over the cited reference in that this claim recites a combination of elements including, for example "[f]astening the surface of the hinge frame to the inner surface of the display case; and securing the display module between the side walls of the display case." None of the cited references singly or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, Applicants respectfully submit that claim 28 and claims 29-31, which depend from claim 28, are allowable over the cited references.

### CONCLUSION

Having responded to all rejections set forth in the outstanding non-final Office Action, it is submitted that claims 1-33 are now in condition for allowance. An early and favorable Notice of Allowance is respectfully solicited. In the event that the Examiner is of

Application No.: 09/437,222  
Group Art Unit: 2835

Docket No.: 8733.173.00  
Page 5

the opinion that a brief telephone or personal interview will facilitate allowance of one or more of the above claims, the Examiner is courteously requested to contact Applicant's undersigned representative.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 05-0911 for any additional fee required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

LONG ALDRIDGE & NORMAN, LLP

By   
Song K. Jung  
Reg. No. 35,210

Date: August 23, 2001

SKJ/RAG/SJH:dlt

Rebecca A. Goldman  
Reg. No. 41,786

701 Pennsylvania Avenue, N.W.  
Sixth Floor, Suite 600  
Washington, D.C. 20004  
Telephone No.: (202) 624-1200  
Facsimile No.: (202) 624-1298



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/110,422	12/11/00	MM9171102	Y 6730-20067

EXAMINER

LODGE ALDRIDGE & MCNAUL LLP  
101 PENNSTATE MARINA PLAZA, SUITE 600  
WASHINGTON, DC 20004

LEA EDMONDS, I	ART UNIT	PAPER NUMBER
2835	11	11/02/01

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)	
	09/437,222	CHO ET AL.	
	Examiner Lisa Lea-Edmonds	Art Unit 2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1)  Responsive to communication(s) filed on 23 August 2001.
- 2a)  This action is FINAL.                                    2b)  This action is non-final.
- 3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4)  Claim(s) 1-33 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5)  Claim(s) \_\_\_\_\_ is/are allowed.
- 6)  Claim(s) 1-3m 8-10, 13-15, 18-, 19, 21-32 is/are rejected.
- 7)  Claim(s) 4-7, 11, 12, 16, 17, 20 and 33 is/are objected to.
- 8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9)  The specification is objected to by the Examiner.
- 10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11)  The proposed drawing correction filed on \_\_\_\_\_ is: a)  approved b)  disapproved by the Examiner.
 

If approved, corrected drawings are required in reply to this Office action.
- 12)  The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All b)  Some \* c)  None of:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 14)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a)  The translation of the foreign language provisional application has been received.
- 15)  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- 1)  Notice of References Cited (PTO-892)
- 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4)  Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5)  Notice of Informal Patent Application (PTO-152)
- 6)  Other: \_\_\_\_\_

Application/Control Number: 09/437,222  
Art Unit: 2835

Page 2

#### DETAILED ACTION

##### *Claim Rejections - 35 USC § 112*

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 33 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. In claim 33 applicant claims a hinge pivotally coupling the display module to the display case. This claim limitation is not possible as the display module is secured between the walls of the display case. However, the figures suggest a hinge pivotally coupling the display module and the display case to the system body as claimed in claims 1-31.

##### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 8-10, 13-15, 18, 19, and 21-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimori et al. in view of Kurihara et al.. With respect to claims 1-3, 8-10, 13-15, 18, 19, and 21-32 in so far as best understood by the examiner;

Application/Control Number: 09/437,222  
Art Unit: 2835

Page 3

Fujimori et al. teaches a portable computer, comprising: a system body (1) having an input device; a liquid crystal display module (13) having a display surface and a rear surface; a display case (2) having a side wall surface; and hinge pivotally coupling the system body to the display module (see for example figures 1, 2, and 8). However, Fujimori et al. lacks a teaching of a hinge frame having a first and second surface as claimed. Kurihara et al. teaches a hinge frame (13) having a first surface coupled to the rear surface of the display module, a second surface coupled with the side wall surface of the display case. It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the hinge structure of Kurihara et al. into the LCD of Fujimori et al. as one of many ways of fixing LCD to the system body. With respect to the method claims 18, 19, and 21-31, the method steps as claimed the apparatus of Fujimori et al. in view of Kurihara et al. would teach the method steps as claimed.

***Allowable Subject Matter***

Claims 4-7, 11, 12, 16, 17, 20, and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims or otherwise incorporated into the limitations of the base claim and any intervening claims.

Application/Control Number: 09/437,222  
Art Unit: 2835

Page 4

***Response to Arguments***

Applicant's arguments filed 08/23/01 have been fully considered but they are not persuasive. With respect to applicant's arguments, it is noted that all objects have multiple surfaces or sides i.e. top, bottom, front, back, left and right. It is also noted that both Fujimori et al. and Kurihara et al. teaches hinge/hinge frame with multiple surfaces as claimed (see the above recited 103 rejection as well as the figures shown in prior art or record). Furthermore, it appears that applicant has ignored the above 103 rejection, figure 2 of Fujimori et al. and figures 2, 3, and 3a of Kurihara et al. show surfaces of the hinge/hinge frame being coupled with the walls of the display case. It is the position of the examiner of record that the above cited 103 rejections still stands.

***Conclusion***

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/437,222  
Art Unit: 2835

Page 5

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa Lea-Edmonds whose telephone number is 703-305-0265. The examiner can normally be reached on 6:30 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Leo Picard can be reached on 703-308-0538. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-1782.

Lisa Lea-Edmonds  
Examiner  
Art Unit 2835

October 27, 2001

*L. P. Picard*

Leo P. Picard  
Supervisory Patent Examiner  
Technology Center 2800



RECEIVED

JAN 30 2002

2835  
AF

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECHNOLOGY CENTER 2800

In Re application of

Young Woo Cho et al.

PATENT  
8733.173.00

12

Application No.: 09/437,222 ✓

Group Art Unit: 2835 #1

Am dt B(NE)

DSmalls-Logan

2-1-01

Filed: November 10, 1999

Examiner: L. Lea-Edmonds

For: PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT  
DISPLAY DEVICE MODULE

ENTER

2-21-2

Roberts

AMENDMENT AFTER FINAL

Please enter  
by the  
2/12/02

Commissioner of Patents  
Washington, D.C. 20231

Dear Sir:

In response to the Examiner's Final Office Action dated November 2, 2001, the following amendments and remarks are respectfully submitted.

IN THE CLAIMS:

32. (Amended) A portable computer comprising:

a system body having an input device;

a display module having a display surface;

a display case having walls, the display module secured between the walls of the display case; and

a hinge pivotally coupling the display module and the display case to the system body, the hinge including a hinge frame having first, second and third surfaces.

Application No.: 09/437,222  
Group Art Unit: 2835

Docket No.: 8733.173.00  
Page 2

**REMARKS**

At the outset, the Examiner is thanked for the thorough review and consideration of the subject application.

In the Final Office Action date November 2, 2001, the Examiner indicated that claims 4-7, 11, 12, 16, 17, 20 and 33 contain allowable subject matter. The Examiner rejected claim 33 under 35 U.S.C. § 112, first paragraph, and rejected claims 1-3, 8-10, 13-15, 18-19, and 21-32 under 35 U.S.C. § 103(a).

By this amendment, Applicants amend claim 32. Accordingly, claims 1-33 are pending in this application. Applicants respectfully submit that no new matter has been added.

The Examiner is thanked for the indication that claims 4-7, 11-12, 16-17, and 20 and 32 contain allowable subject matter.

Applicants request clarification of the record regarding claim 32 as it is indicated as being allowable if rewritten in independent form including all of the limitations of the base claim and is also rejected under 35 U.S.C. § 103(a).

In the Office Action dated November 12, 2001, the Examiner rejected claim 33 under 35 U.S.C. § 112, first paragraph. Applicants request clarification regarding this rejection, as there appears to be a typographical error as claim 33 depends from independent claim 32. Accordingly, Applicants respectfully submit that amended claim 32 is in full compliance with 35 U.S.C. § 112, first paragraph.

The Examiner rejected claims 1-3, 8-10, 13-15, 18-19, and 21-32 under 35 U.S.C. § 103(a) as being unpatentable over Fujimori et al. (U.S. Pat. No.: 5,379,182), hereinafter “Fujimori” in view of Kurihara et al. (U.S. Pat. No.: 5,946,061), hereinafter “Kurihara.”

Application No.: 09/437,222  
 Group Art Unit: 2835

Docket No.: 8733.173.00  
 Page 3

The rejection of claims 1-3, 8-10, 13-15, 18-19, and 21-32 under 35 U.S.C. § 103(a) is respectfully traversed and reconsideration is requested.

Independent claim 1 is allowable over the cited references in that claim 1 recites a combination of elements including, for example, “the second surface coupled with the side wall surface of the display case.” None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. The Examiner states that Fujimori fails to disclose at least, a second surface coupled with the side wall surface of the display case, as recited in claim 1. The Examiner relies on Kurihara to cure the deficiencies of Fujimori by stating “Kurihara teaches a hinge frame (13) having a first surface coupled to the rear surface of the display module, a second surface coupled with side wall surface of the display case.” Applicants respectfully directs the Examiner to Figures 5a-7a of Kurihara. In Fig. 7a, for example, the second surface 13 is not coupled to the side wall surface of the display case 14. As shown in Fig. 7a, the second surface 13 does not touch the side wall surface of the display case 14. For at least this reason, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 1 and claims 2-7, which depend from claim 1, are allowable over the cited references.

Independent claim 8 is allowable over the cited references in that claim 8 recites a combination of elements including, for example, “the hinge including a hinge frame having first and second surfaces, the first surface coupled with the inner surface of the display case, the second surface coupled with the side wall surface of the display module.” None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. As noted in the arguments above, Kurihara fails to cure the deficiencies of Fujimori, for example, because it lacks the second surface coupled with the side wall

Application No.: 09/437,222  
 Group Art Unit: 2835

Docket No.: 8733.173.00  
 Page 4

surface of the display module. Accordingly, Applicants respectfully submit that claim 8 and claims 9-12, which depend from claim 8, are allowable over the cited references.

Independent claim 13 is allowable over the cited references in that claim 13 recites a combination of elements including, for example, “a hinge pivotally coupling the body to the display case, the hinge including a hinge frame coupled to the inner surface of the display case.” None of the cited references, singly or in combination, teaches or suggests at least this feature of the claimed invention. For at least the similar reasons as discussed above, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 13 and claims 14-17, which depend from claim 13, are allowable over the cited references.

In rejecting claims 18-19, and 21-31 the Examiner stated that, “With respect to the methods claims 18, 19, 21-31, the method steps as claimed the apparatus of Fujimori et al. in view of the Kurihara et al. would teach the method steps as claimed.”

Independent claim 18 is allowable over the cited reference in that claim 18 recites a combination of elements including, for example “fastening the first surface of the hinge frame to the rear surface of the display module; and fastening the second surface of the hinge frame to the side wall surface of the display case.” Applicants respectfully direct the Examiner to Figs. 5a-7a of Kurihara. In Fig. 7a, for example, there is no fastening of the second surface of the hinge frame to the side wall surface of the display case. As shown in Fig. 7a, the second surface 13 does not even touch the side wall surface of the display case 14. For at least this reason, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 18 and claims 19-22, which depend from claim 18, are allowable over the cited references.

Application No.: 09/437,222  
 Group Art Unit: 2835

Docket No.: 8733.173.00  
 Page 5

Independent claim 23 is allowable over the cited reference in that claim 23 recites a combination of elements including, for example, "fastening the first surface of the hinge frame to the inner surface of the display case; and fastening the second surface of the hinge frame to the side wall surface of the display module." For at least similar reasons as discussed above, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 23 and claims 24-27, which depend from claim 23, are allowable over the cited references.

Independent claim 28 is allowable of over the cited reference in that claim 28 recites a combination of elements including, for example, "fastening the surface of the hinge frame to the inner surface of the display case; and securing the display module between the side walls of the display case." For at least similar reasons as discussed above, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 28 and claims 29-31, which depend from claim 28, are allowable over the cited references.

Independent claim 32 is allowable of over the cited reference in that claim 32 recites a combination of elements including, for example, "a hinge pivotally coupling the display module and the display case to the system body, the hinge including a hinge frame having a first, second and third surfaces." For at least the similar reasons as discussed above, Kurihara fails to cure the deficiencies of Fujimori. Accordingly, Applicants respectfully submit that claim 32 and claim 33, which depend from claim 32, are allowable over the cited references.

Moreover, Applicants respectfully submit that no proper motivation or suggestion is found in either Fujimori or Kurihara for one of ordinary skill in the art to combine the two references. Applicants respectfully submit that such combination is suggested only by the claimed invention and to do so would be considered impermissible hindsight. Accordingly,

Application No.: 09/437,222  
Group Art Unit: 2835

Docket No.: 8733.173.00  
Page 6

Applicants respectfully submit that the pending claims are allowable over Fujimori and Kurihara.

If the Examiner deems that a telephone call would further the prosecution of this application, the Examiner is invited to call the undersigned at (202) 624-1250. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911.

Respectfully submitted,

LONG ALDRIDGE & NORMAN, LLP

Date: January 29, 2002

By 

Song K. Jung  
Registration No: 35,210

701 Pennsylvania Avenue, N.W.  
Sixth Floor, Suite 600  
Washington, D.C. 20004  
Telephone No.: (202) 624-1200  
Facsimile No.: (202) 624-1298

Attachment: Marked up version of the amended claim

Application No.: 09/437,222  
Group Art Unit: 2835

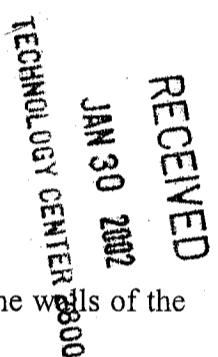
Docket No.: 8733.173.00  
Page 7



**MARKED UP VERSION OF THE AMENDED CLAIM**

Please amend claim 32 as follows:

32. (Amended) A portable computer comprising:  
a system body having an input device;  
a display module having a display surface;  
a display case having walls, the display module secured between the walls of the display case; and  
a hinge pivotally coupling the display module and [to] the display case to the system body, the hinge including a hinge frame having [a] first, second and third surfaces.



<b>Interview Summary</b>	Application No.	Applicant(s)	
	09/437,222	CHO ET AL.	
	Examiner Yean-Hsi Chang	Art Unit 2835	

All participants (applicant, applicant's representative, PTO personnel):

(1) Yean-Hsi Chang. (3) \_\_\_\_\_  
 (2) Song K. Jung. (4) \_\_\_\_\_

Date of Interview: 08 February 2002.

Type: a) Telephonic b) Video Conference  
 c) Personal [copy given to: 1) applicant 2) applicant's representative]

Exhibit shown or demonstration conducted: d) Yes e) No.  
 If Yes, brief description: \_\_\_\_\_.

Claim(s) discussed: 1-33.

Identification of prior art discussed: \_\_\_\_\_.

Agreement with respect to the claims f) was reached. g) was not reached. h) N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Claims 1-31 could be allowed; and claims 32 and 33 canceled by examiner's amendment.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

i) It is not necessary for applicant to provide a separate record of the substance of the interview(if box is checked).

Unless the paragraph above has been checked, THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

  
 Examiner's signature, if required

## Summary of Record of Interview Requirements

### **Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record**

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

### **Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews**

#### **Paragraph (b)**

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

#### **37 CFR §1.2 Business to be transacted in writing.**

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case unless both applicant and examiner agree that the examiner will record same. Where the examiner agrees to record the substance of the interview, or when it is adequately recorded on the Form or in an attachment to the Form, the examiner should check the appropriate box at the bottom of the Form which informs the applicant that the submission of a separate record of the substance of the interview as a supplement to the Form is not required.

It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner.  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

#### **Examiner to Check for Accuracy**

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

**Notice of Allowability****Application No.**

09/437,222

**Applicant(s)**CHO ET AL. *JKS***Examiner**

Art Unit

Yean-Hsi Chang

2835

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to a telephone interview on 08 February 2002.
2.  The allowed claim(s) is/are 1-31.
3.  The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

5.  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a)  The translation of the foreign language provisional application has been received.
6.  Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8.  CORRECTED DRAWINGS must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No. 8.
  - (b)  including changes required by the proposed drawing correction filed 23 August 2001, which has been approved by the Examiner.
  - (c)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- 1  Notice of References Cited (PTO-892)
- 3  Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 5  Information Disclosure Statements (PTO-1449), Paper No. \_\_\_\_\_
- 7  Examiner's Comment Regarding Requirement for Deposit of Biological Material

- 2  Notice of Informal Patent Application (PTO-152)
- 4  Interview Summary (PTO-413), Paper No. \_\_\_\_\_
- 6  Examiner's Amendment/Comment
- 8  Examiner's Statement of Reasons for Allowance
- 9  Other

*DARREN SCHUBERG  
PRIMARY EXAMINER  
Supervisory Patent*

Application/Control Number: 09/437,222

Art Unit: 2835

#14/C  
2-21-2

Page 2

### DETAILED ACTION

#### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Song Jung on 2 February 2002.

The application has been amended as follows: in the claims, cancel claims 32 and 33.

#### Allowable Subject Matter

2. Claims 1-31 are allowed.
3. The following is an examiner's statement of reasons for allowance: The best prior art of record, Fujimori et al. (US 5,379,182) and Kurihara et al. (US 5,946,061), taken alone or in combination fails to teach a portable computer comprising a system body, a display module having a rear surface, a display case having a side surface, and a hinge including a hinge frame having first surface coupled with the rear surface of the display module, and a second surface coupled with the side wall surface of the display case as

Application/Control Number: 09/437,222  
Art Unit: 2835

Page 3

claimed in claims 1, 8, 13, 18, 23 and 28. Claims 2-7, 9-12, 14-17, 19-22 and 24-27 are dependent claims from claims 1, 8, 13, 18, 23 and 28 respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Correspondence***

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (703) 306-5798. The examiner can normally be reached on 07:30-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-8558.

Application/Control Number: 09/437,222

Page 4

Art Unit: 2835

Yean-Hsi Chang

Patent Examiner

Art Unit: 2835

February 16, 2002

  
DARREN SCHUBERG  
PRIMARY EXAMINER  
*Supervising Patent*



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231  
 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 02/22/2002

LONG ALDRIDGE & NORMAN LLP  
 701 PENNSYLVANIA AVENUE N W  
 WASHINGTON, DC 20004

EXAMINER

CHANG, YEAN HSI

ART UNIT

CLASS-SUBCLASS

2835

361-681000

DATE MAILED: 02/22/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,222	11/10/1999	YOUNG WOO CHO	8733-20067	7668

TITLE OF INVENTION: PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT DISPLAY DEVICE MODULE

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
31	nonprovisional	NO	\$1280	\$0	\$1280	05/22/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

Applicant claims SMALL ENTITY status.  
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE  
 Assistant Commissioner for Patents  
 Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590 02/22/2002

LONG ALDRIDGE & NORMAN LLP  
 701 PENNSYLVANIA AVENUE N W  
 WASHINGTON, DC 20004

Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

## Certificate of Mailing

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on the date indicated below.

(Depositor's name)  
 (Signature)  
 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,222	11/10/1999	YOUNG WOO CHO	8733-20067	7668

TITLE OF INVENTION: PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT DISPLAY DEVICE MODULE

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
31	nonprovisional	NO	\$1280	\$0	\$1280	05/22/2002

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANG, YEAN HSI	2835	361-681000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.

Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached.

2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent)  individual  corporation or other private group entity  government

4a. The following fee(s) are enclosed:

Issue Fee  
 Publication Fee  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

A check in the amount of the fee(s) is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)

(Date)

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMIT THIS FORM WITH FEE(S)


**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/437,222	11/10/1999	YOUNG WOO CHO	8733-20067	7668
7590	02/22/2002		EXAMINER	
LONG ALDRIDGE & NORMAN LLP 701 PENNSYLVANIA AVENUE N W WASHINGTON, DC 20004			CHANG, YEAN HSI	
			ART UNIT	PAPER NUMBER
			2835	15
			DATE MAILED: 02/22/2002	

**Determination of Patent Term Extension under 35 U.S.C. 154 (b)**  
**(application filed after June 7, 1995 but prior to May 29, 2000)**

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (<http://pair.uspto.gov>)



JR

MA  
#16

Docket No.: 8733.173.00  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Young W. Cho, et al.

Application No.: 09/437,222

Allowed: February 22, 2002

Filed: November 10, 1999

Group Art Unit: 2835

For: PORTABLE COMPUTER AND METHOD FOR  
MOUNTING A FLAT PANEL DISPLAY  
DEVICE MODULE

Examiner: Y. Chang

TECHNOLOGY CENTER 2800

RECEIVED  
MAY - 8 2002

Commissioner for Patents  
Washington, DC 20231

Dear Sir:

Submitted herewith is one set (fourteen sheets, sixteen figures) of corrected formal drawings for filing in the above-identified patent application, as required by the Office.

Dated: May 2, 2002

Respectfully submitted,

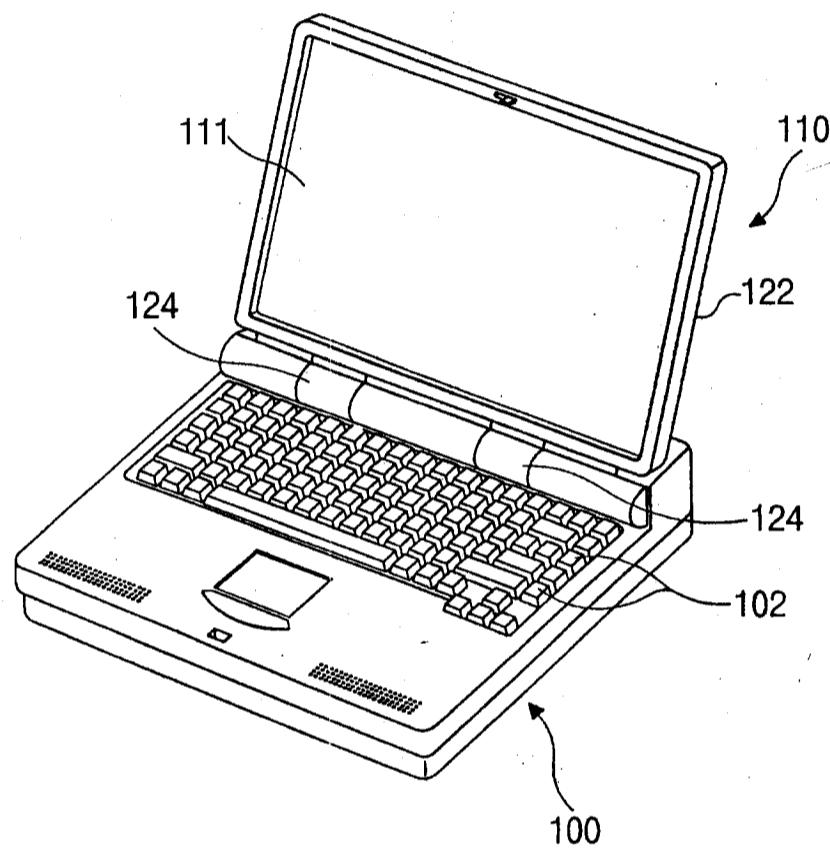
By

  
Song K. Jung  
Registration No.: 35,210

LONG ALDRIDGE & NORMAN LLP  
701 Pennsylvania Avenue N.W.  
Suite 600  
Washington, DC 20004  
(202) 624-1200  
Attorneys for Applicants

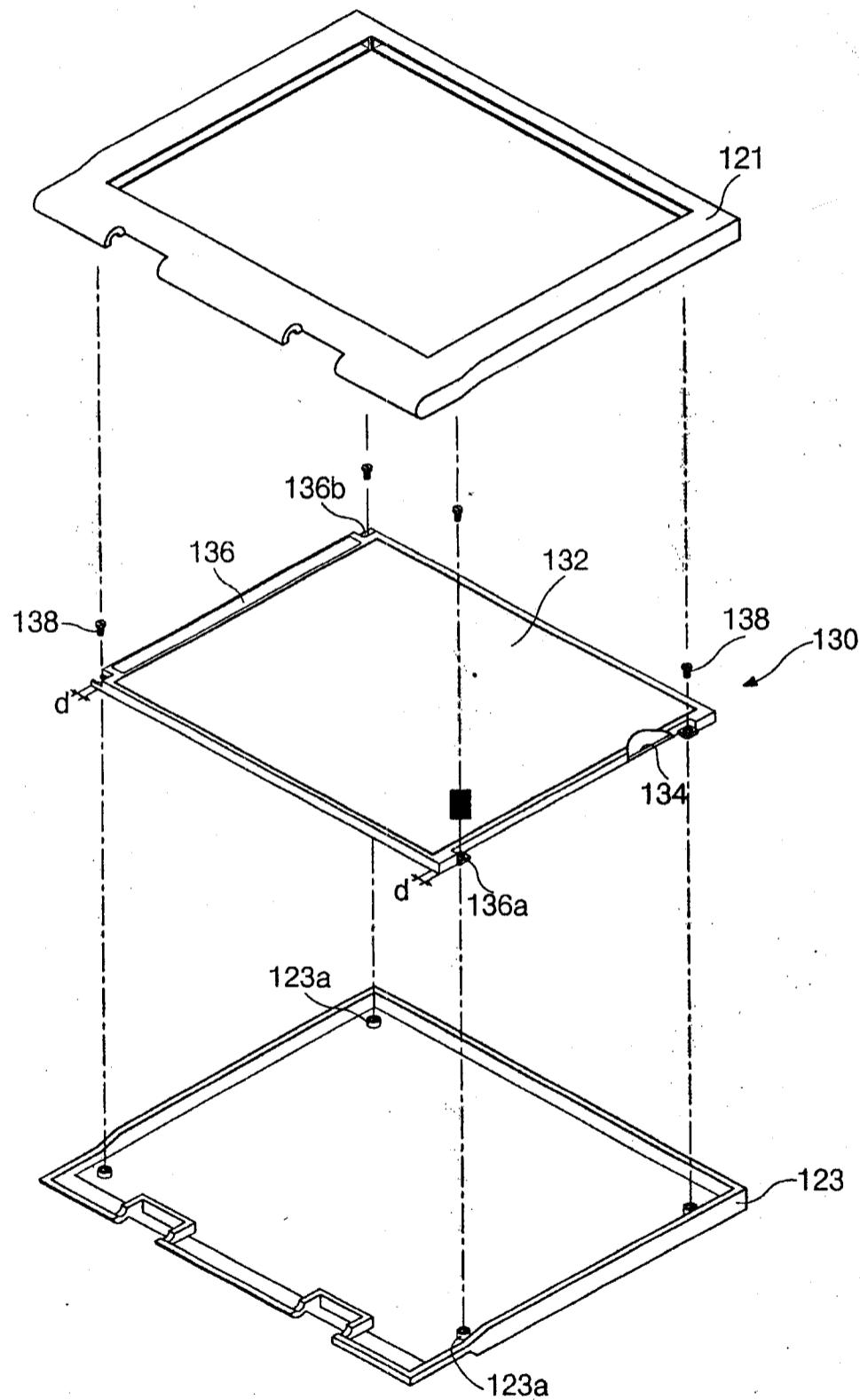
**6411501**

Assignee: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



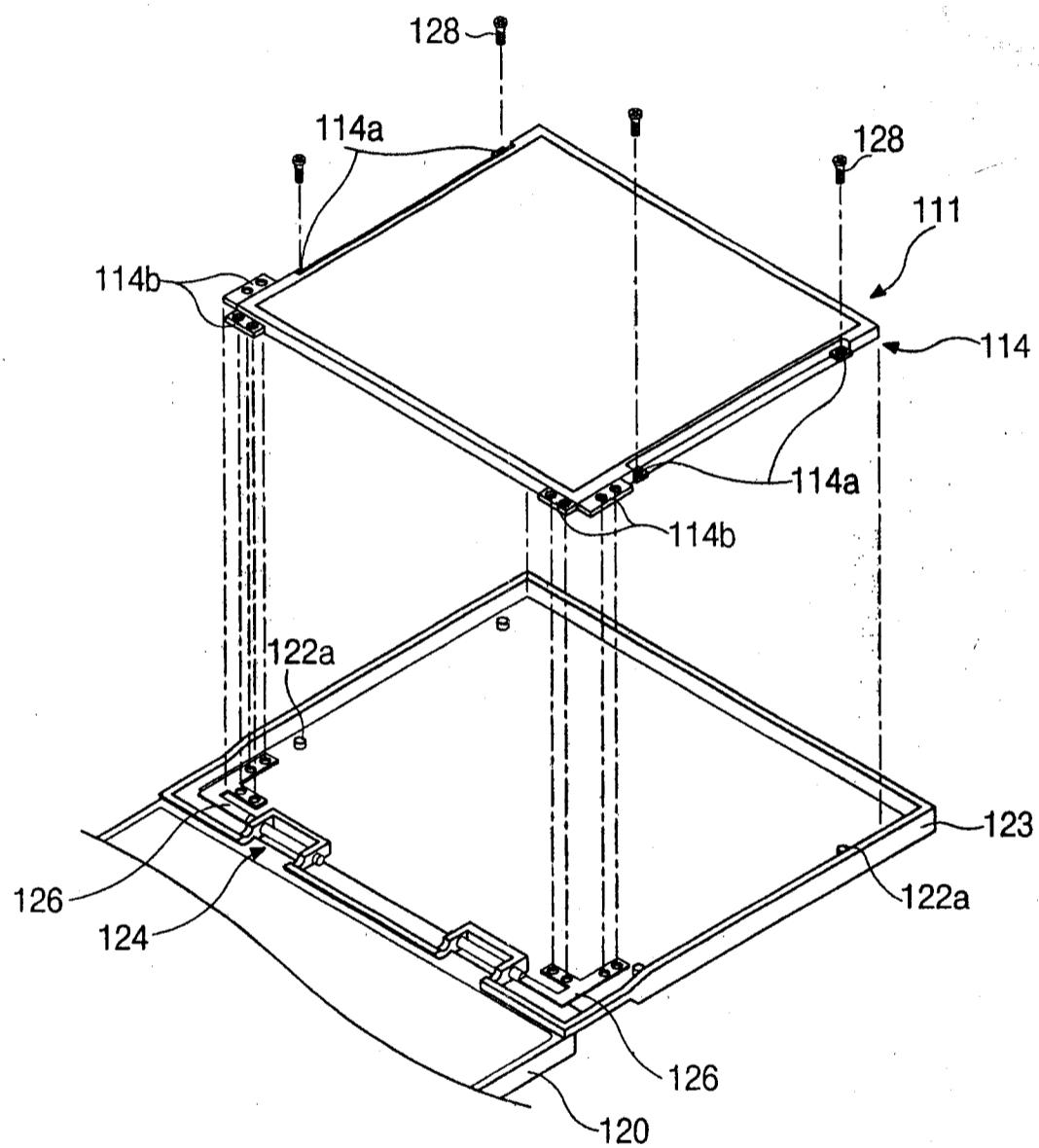
***FIG. 1***

Attorney: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



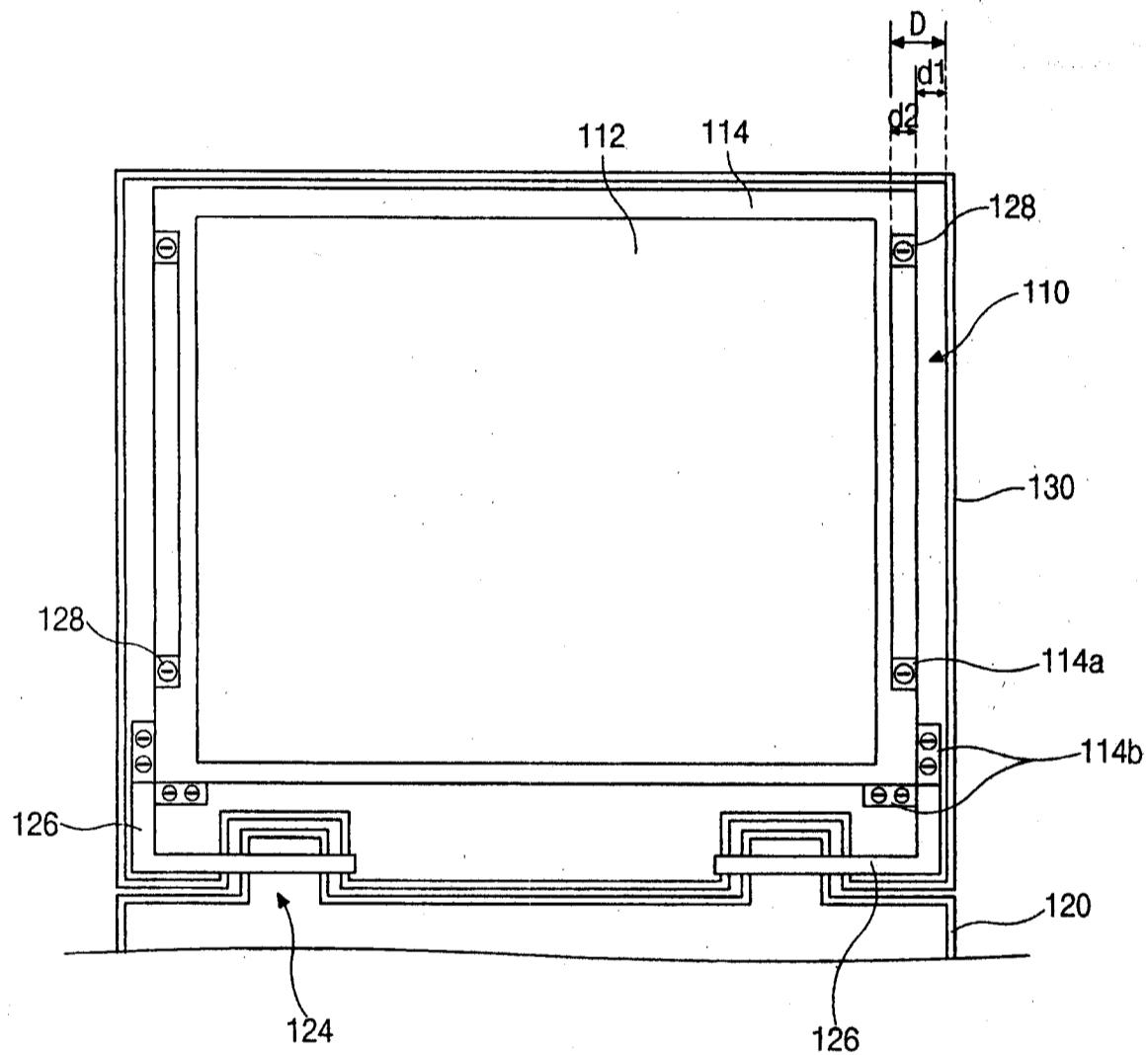
**FIG. 2**

Attorney: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



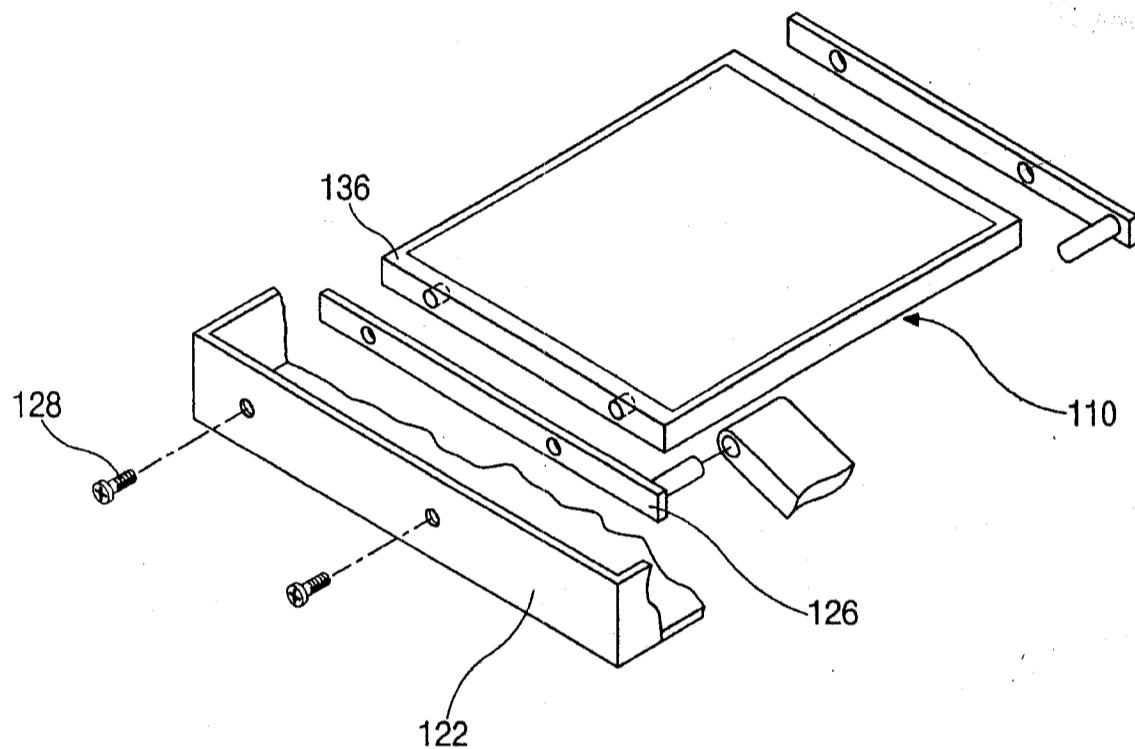
**FIG. 3A**

...entor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



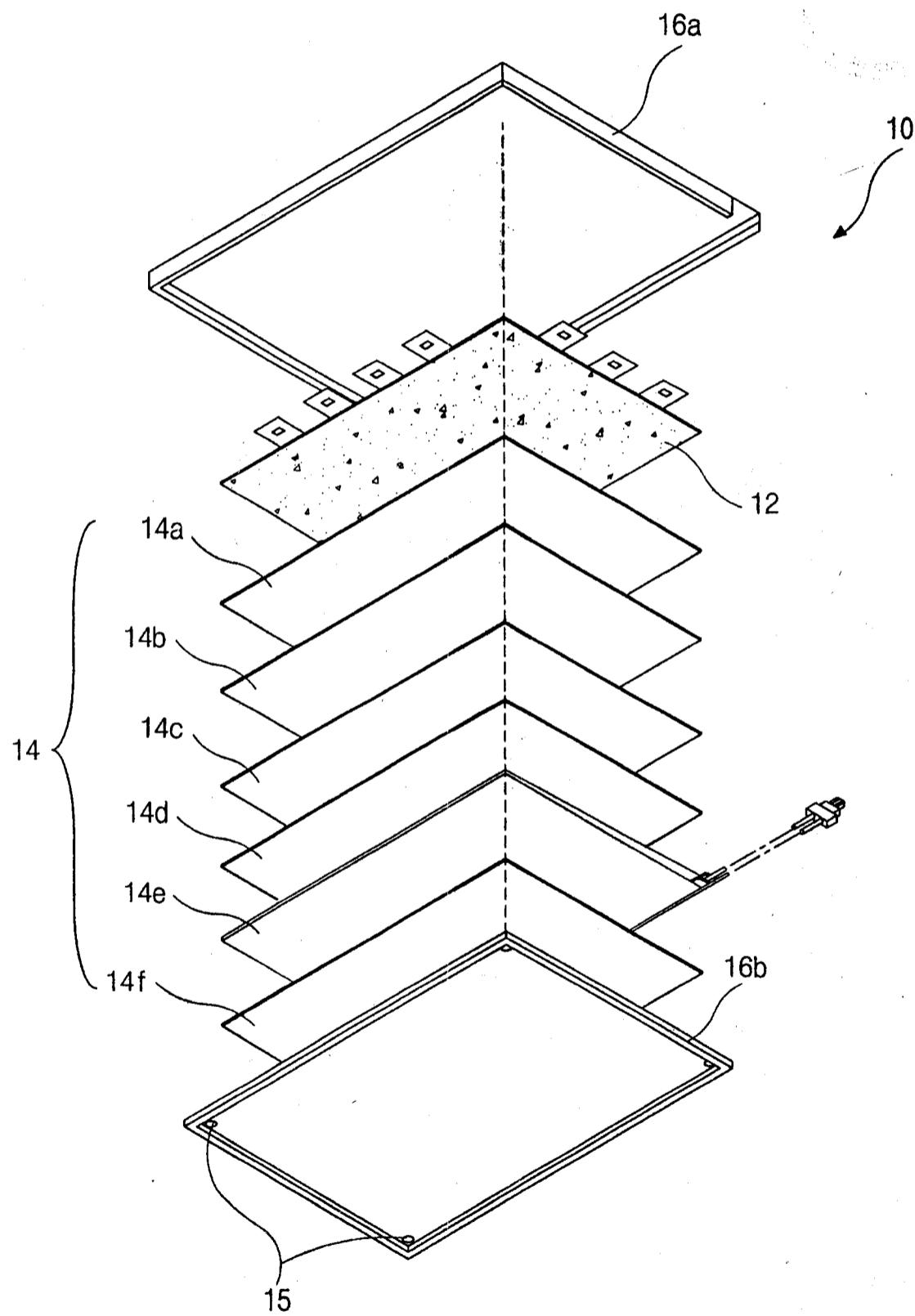
**FIG. 3B**

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



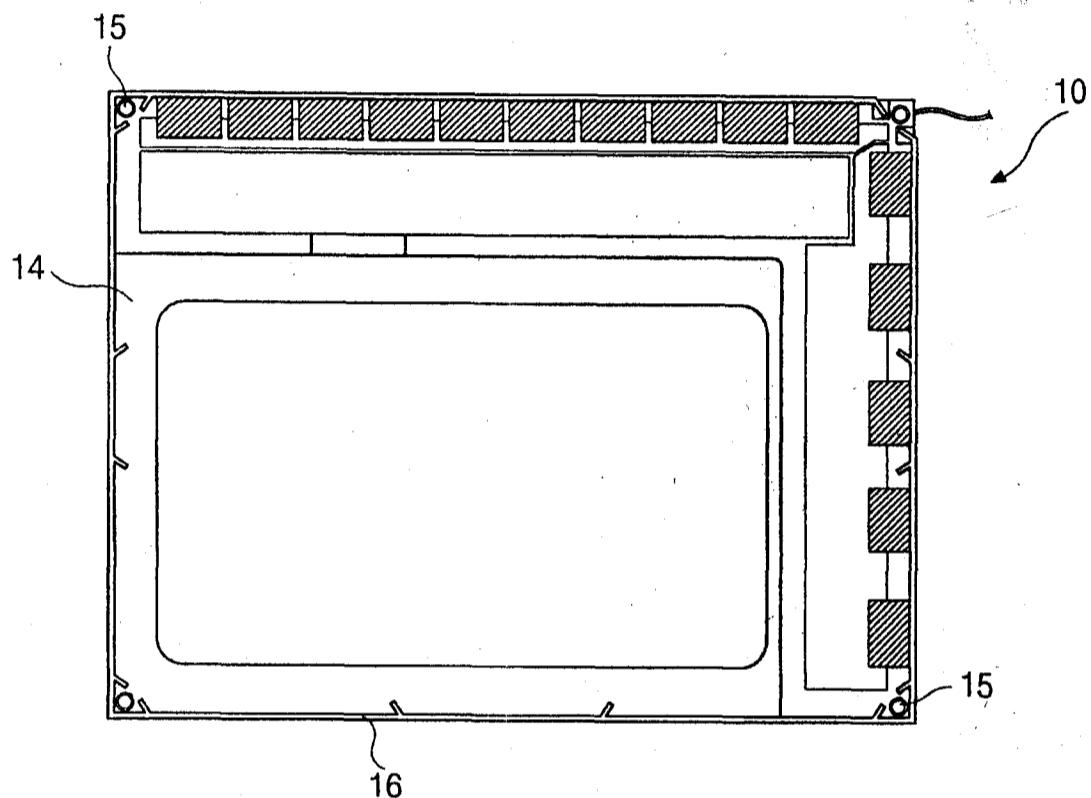
**FIG. 4**

Attorney: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



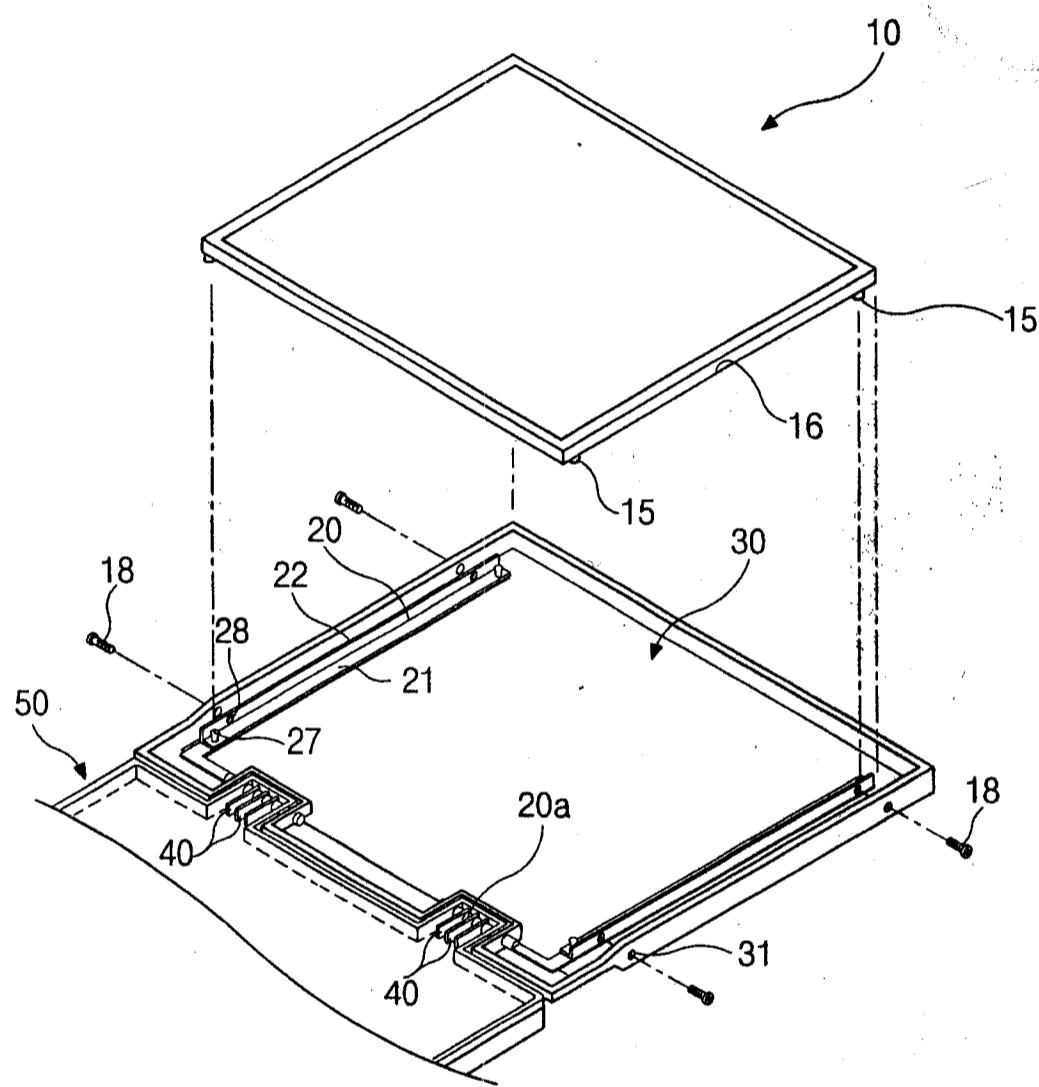
**FIG. 5**

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



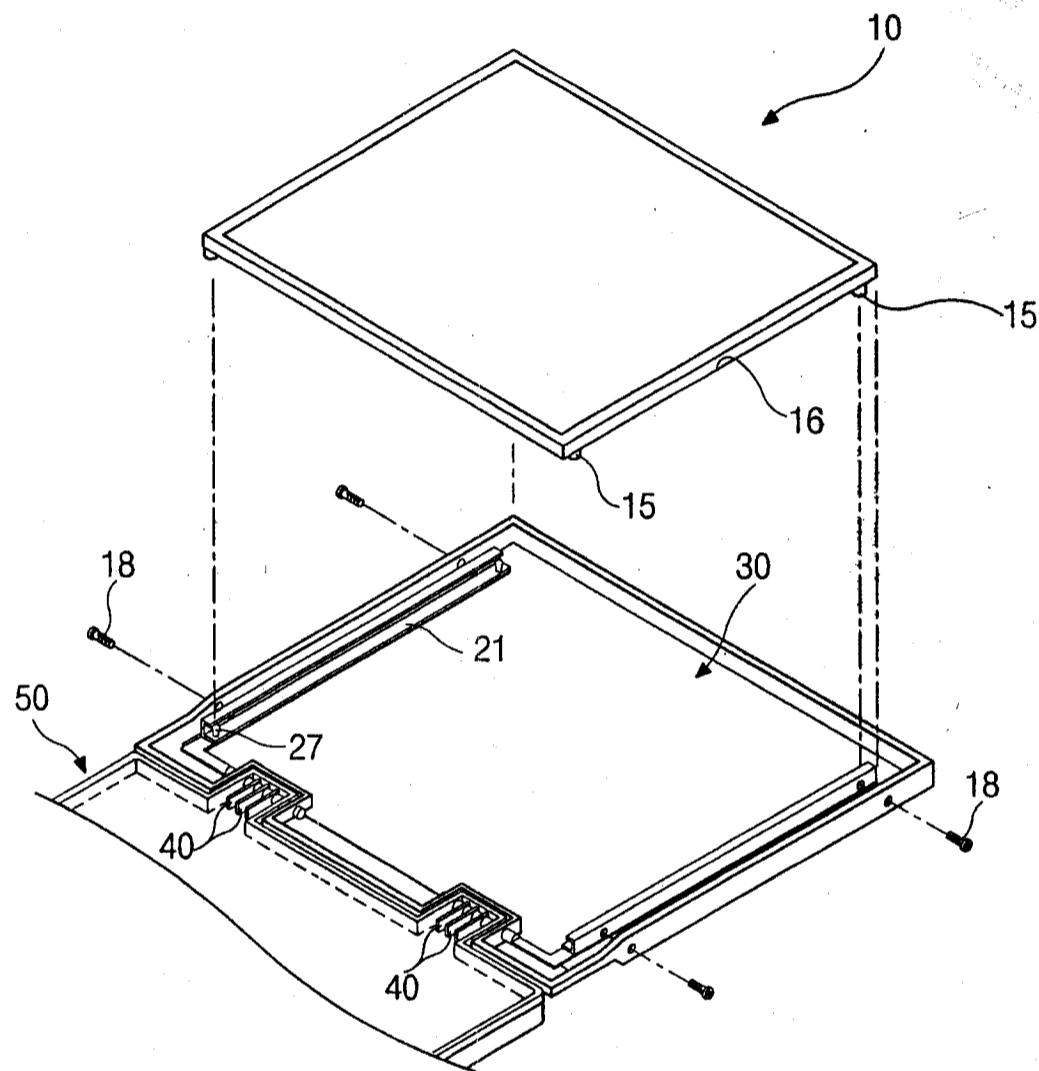
**FIG. 6**

Attorney: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



**FIG. 7**

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



**FIG. 8**

1. Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00

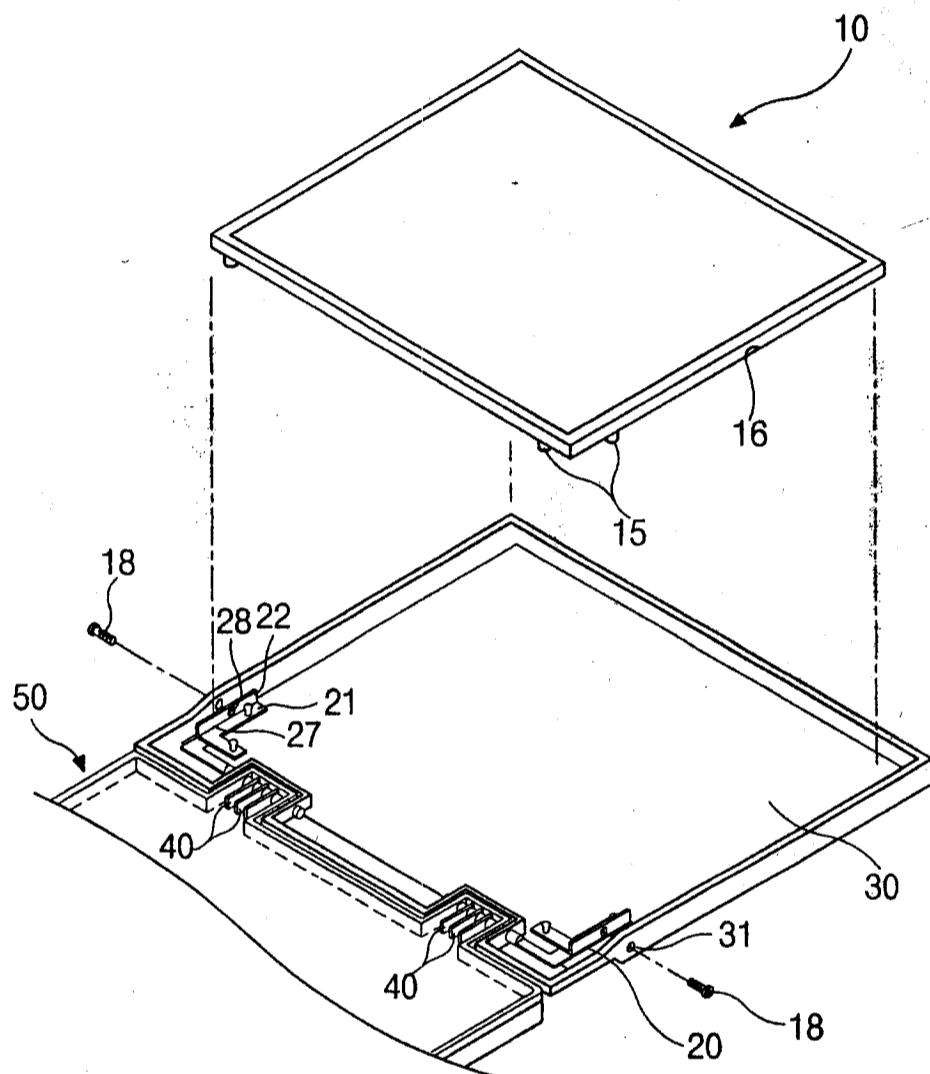
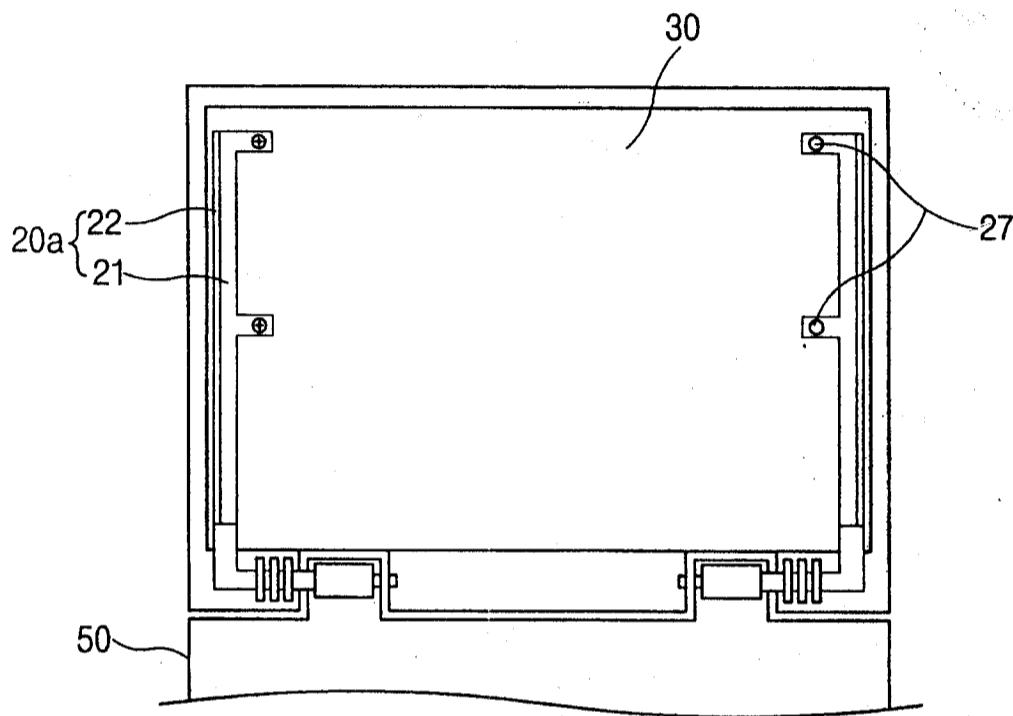
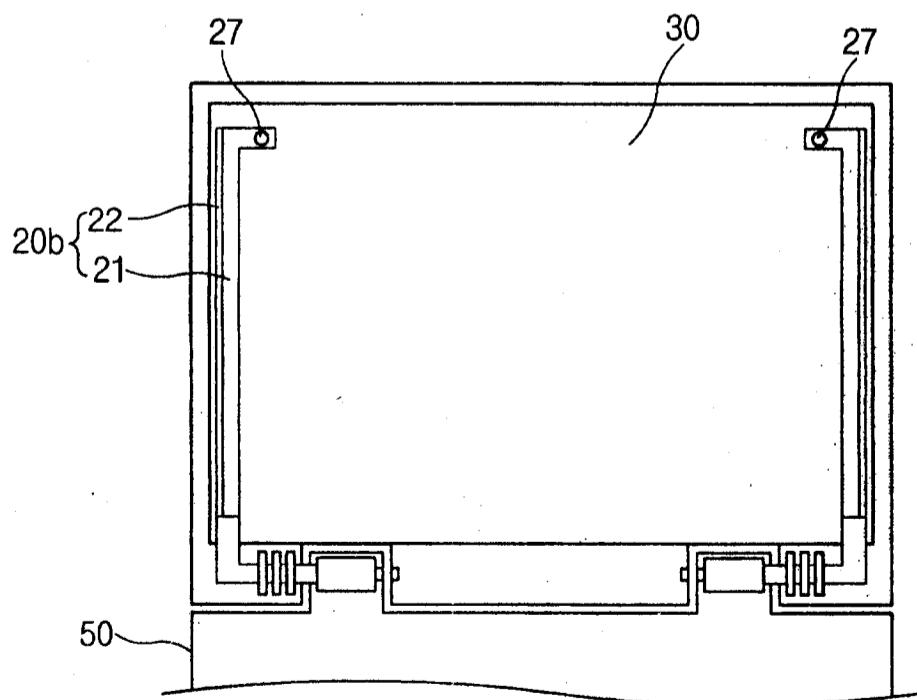


FIG. 9

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00

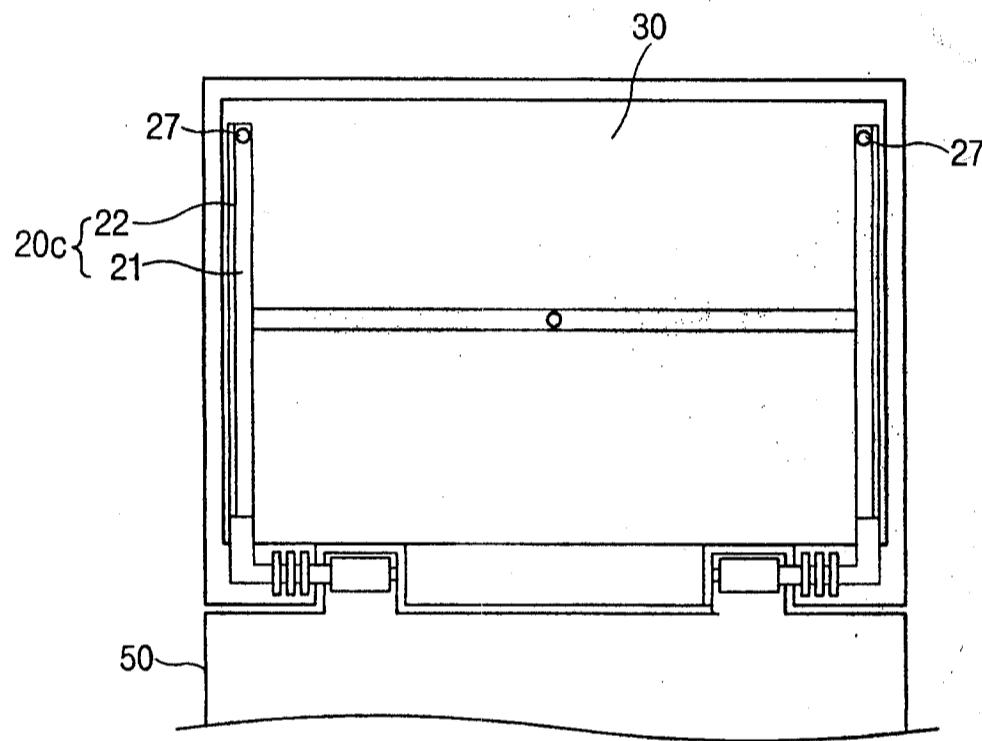


**FIG. 10A**



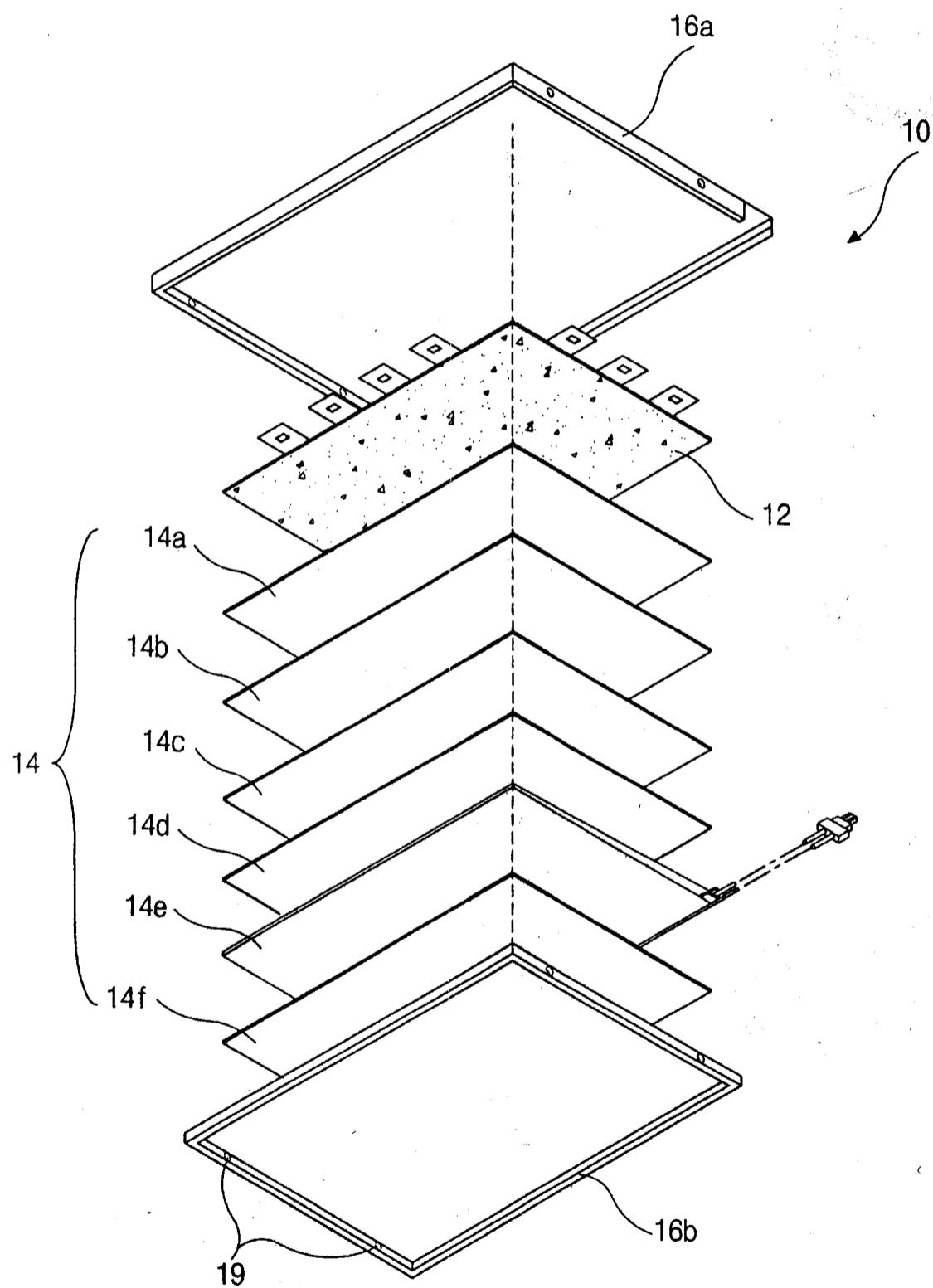
**FIG. 10B**

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



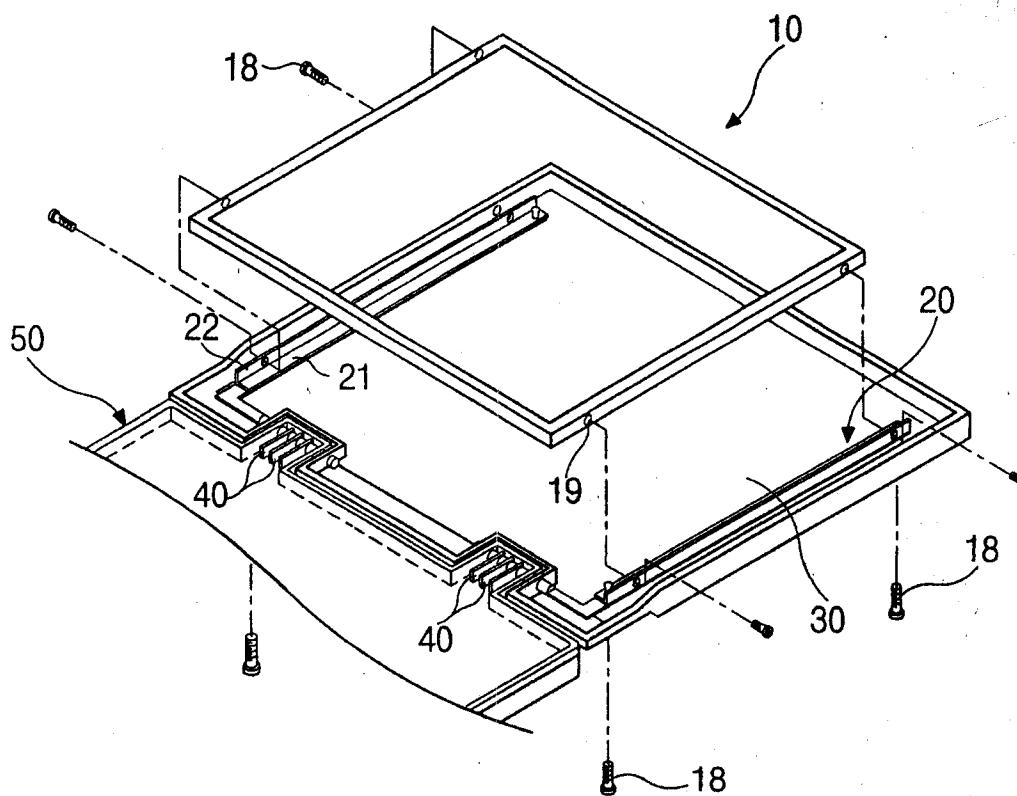
**FIG. 10C**

Inventor: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00

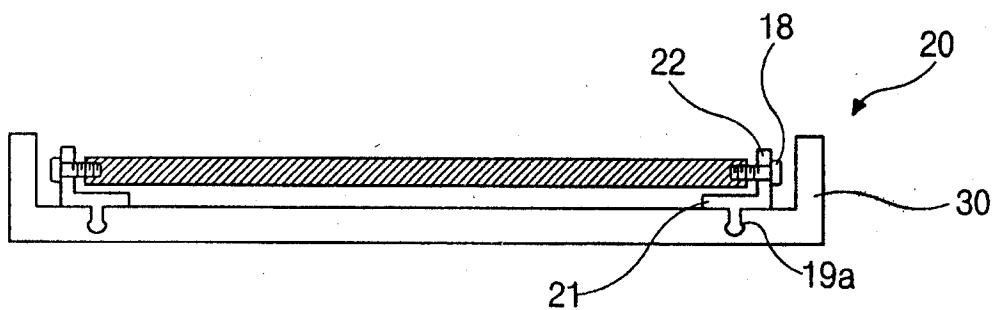


**FIG. 11**

Attorney: Young Woo CHO et al.  
PORTABLE COMPUTER AND METHOD FOR MOUNTING  
A FLAT PANEL DISPLAY DEVICE MODULE  
Attorney Docket No. 8733.173.00



**FIG. 12**



**FIG. 13**

MAY 1 2002

## PART B - FEE(S) TRANSMITTAL

Complete and mail this form, together with applicable fee(s), to:

Box ISSUE FEE  
 Assistant Commissioner for Patents  
 Washington, D.C. 20231

MAILING INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

7590 02/22/2002  
 LONG ALDRIDGE & NORMAN LLP  
 701 PENNSYLVANIA AVENUE N W  
 WASHINGTON, DC 20004

Note: The certificate of mailing below can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

**Certificate of Mailing**  
 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on the date indicated below.

(Depositor's name)
(Signature)
(Date)

**CUSTOMER NUMBER 30827**

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09-437,222	11/10/1999	YOUNG WOO CHO	30827	7668 8733.173.00

TITLE OF INVENTION: PORTABLE COMPUTER AND METHOD FOR MOUNTING A FLAT DISPLAY DEVICE MODULE

TOTAL CLAIMS	APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
31	nonprovisional	NO	\$1280	\$0	\$1280	05/22/2002

EXAMINER	ART UNIT	CLASS-SUBCLASS
CHANG, YEAN HSI	2835	361-681000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Use of PTO form(s) and Customer Number are recommended, but not required.	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
<input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.	Long Aldridge & Norman LLP
<input type="checkbox"/> "Fee Address" indication for "Fee Address" Indication form PTO/SB/47 attached.	2. _____
	3. _____

## 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLS. NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

**LG Philips LCD Co., Ltd.****Seoul, Korea**Please check the appropriate assignee category or categories (will not be printed on the patent)  individual  corporation or other private group entity  government

4a. The following fee(s) are enclosed:

Issue Fee  
 Publication Fee  
 Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s):

A check in the amount of the fee(s) is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Commissioner is hereby authorized to charge the required fee(s), or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

(Authorized Signature)  
**Song K. Jung**  
 Reg. No. 35,210

(Date)

5/2/2002

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, United States Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington, D.C. 20231

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

05/03/2002 CVD222 00000165 09437222

01 FC:142

1260.00 0P